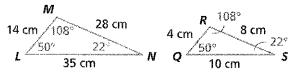




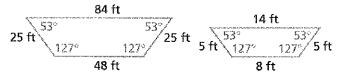
Quiz for Lessons 5-7 Through 5-9 Show Work.

⑤ 5-7 Similar Figures and Proportions

1. Tell whether the triangles are similar.



2. Tell whether the figures are similar.



5-8 Using Similar Figures

 $\triangle ABC \sim \triangle XYZ$ in each pair. Find the unknown lengths.

3. Y

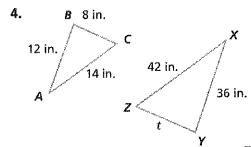
B

10 m

13 m

Z

32.5 m



- **5.** Reynaldo drew a rectangular design that was 6 in. wide and 8 in. long. He used a copy machine to enlarge the rectangular design so that the width was 10 in. What was the length of the enlarged design?
- **6.** Redon is 6 ft 2 in. tall, and his shadow is 4 ft 1 in. long. At the same time a building casts a shadow that is 19 ft 10 in. long. Estimate the height of the building.

(5-9) Scale Drawings and Scale Models

- **7.** An actor is 6 ft tall. On a billboard for a new movie, the actor's picture is enlarged so that his height is 16.8 ft. What is the scale factor?
- **8.** On a scale drawing, a driveway is 6 in. long. The scale factor is $\frac{1}{24}$. Find the length of the actual driveway.
- **9.** A map of Texas has a scale of 1 in. = 65 mi. If the distance from Dallas to San Antonio is 260 mi, what is the distance in inches between two cities on the map?

Name				Date			Class	
LESSO								
	Scale Dragon State of the scale		and Sca	le Mod	els			
1.	my me scale i	actor,	OL 15-1	7 2.				
		Bear	Stuffed Animal		Height	· (ft)	32.4	Dollhouse 2.7
	Height (in.)	62	15.5			(1-7	<u> </u>	
- 3.				_ 4.				1
V.	Length (ft)	Airplane 25.5	Model 1.5	- T-			Alligator	Toy Alligator
	Length (it)	25.5	1.3		Length	(in.)	128.1	6.1
The scale factor of each model is 1:16. Find the missing dimensions.								
	Item		Actual Dimensions			Model Dimensions		
5.	barn		height: 32 ft length:			height: length: 3.5 ft		
6.	submarine		length:			length: 18 ³ / ₄ ft		
7.	bookcase	-	height: 96 in.			height:		
7. 8.	tree		height:			height: 21/2 ft		
Ų.			length: 13 ft			length:		
9.	car		height: 5.5 ft			height:		
10.	shark	len	length:			length: 14 ¹ / ₄ in.		
h	lillary took a ph eight of 28.5 fe ne photograph,	et. If the ho	ouse meas	sures 3.6			•	
is	On a road map, s 8 centimeters. ne cities if the m	What is the	e actual dis	stance bet	ween			
13. A	sculptor plans rawing, the sta rawing is $\frac{1}{23}$. F	a statue by tue is 8 ² in	y making a oches tall.	a drawing The scale	to scale.			